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 Name (line 1) Ricoh Company, Ltd.

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

 Name (line 2)

 Address (line 1) 2-3, Shin-Yokohama 3-chome

 Address (line 2) Kohoku-ku, Yokohama-shi

 Address (line 3) Kanagawa

City

Japan

222-8530

State/Country

Zip Code

Domestic Representative Name and Address

Enter for the first Receiving party only.

 Name Mark J. Thronson (33,082)

 Address (line 1) DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

 Address (line 2) 2101 L Street NW

 Address (line 3) Washington, DC 20037-1526

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U.S. Department of Commerce
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C Correspondent Name and Address **A**rea C d and Telephone Number (202) 775-4742

Name Mark J. Thronson

Address (line 1) DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Address (line 2) 2101 L Street NW

Address (line 3) Washington, DC 20037-1526

Address (line 4)

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1

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Deposit Account

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Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Mark J. Thronson

Name of Person Signing

Signature

December 21, 2000

Date

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by HARUYUKI SUZUKI,

and _____ (hereinafter referred to as
"Assignors"), respectively residing at: Kanagawa, Japan,

and _____.

WHEREAS, Assignors have invented certain new and useful improvements in
OPTICAL RECORDING/REPRODUCING METHOD AND APPARATUS,

set forth in an application for Letters Patent of the United States, executed concurrently
herewith; and

WHEREAS, Ricoh Company, Ltd., a corporation organized under and pursuant
to the laws of Japan, having its principal place of business at 3-6, Nakamagome 1-chome,
Ohta-ku, Tokyo 143-8555, Japan (hereinafter referred to as "Assignee"), is desirous of
acquiring the entire right, title and interest in and to said inventions and said Application
for Letters Patent of the United States, and in and to any Letters Patent of the United
States to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good
and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have
sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and
set over, unto Assignee, its successors, legal representatives and assigns, the entire right,
title and interest in and to the above-mentioned inventions and application for Letters
Patent, and in and to any and all direct and indirect divisions, continuations and
continuations-in-part of said application, and any and all Letters Patent in the United
States which may be granted therefor and thereon, and reissues, reexaminations and
extensions of said Letters Patent, and all rights under the International Convention for

the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions

and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

Dickstein Shapiro Morin & Oshinsky LLP

Gary M. Hoffman, 26,411; Thomas J. D'Amico, 28371; Donald A. Gregory, 28,954; James W. Brady, Jr., 32,115; Jon D. Grossman, 32,699; Mark J. Thronson, 33,082; Laurence D. Fisher, 37, 131; John R. Fuisz, 37327; Juliana Haydoutova, P43,313; James M. Heintz, P41,828; Herbert V. Kerner, P42,721; Gianni Minutoli, 41,198; Eric Oliver, 35,307; William E. Powell, III, 39,803; James M. Silbermann, 40,413; Richard Veltman, 36,957 and Darius Gambino, 41,472.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: December 7, 2000

Assignor: Haruyuki Suzuki
HARUYUKI SUZUKI

Date: _____

Assignor: _____

Date: _____

Assignor: _____

Date: _____

Assignor: _____

Witnesses:

Date: December 7, 2000

Witness: Arthur J. Schlesinger

Date: December 7, 2000

Witness: Haruyuki Morita